

## PH.D. IN COMPUTER SCIENCE WORKSHEET

Name: \_\_\_\_\_ Z#: \_\_\_\_\_ Date of Candidacy Exam Passed: \_\_\_\_\_

Dissertation Advisor (Chair): \_\_\_\_\_ Co-Chair: \_\_\_\_\_

Committee:

Member 1: \_\_\_\_\_ Member 2: \_\_\_\_\_ Member 3: \_\_\_\_\_

Member 4: \_\_\_\_\_ Member 5: \_\_\_\_\_ Member 6: \_\_\_\_\_

When did you submit Admission for Candidacy (Form 8), Semester: \_\_\_\_\_

Anticipated Date of your PhD proposal presentation: \_\_\_\_\_

**Students are encouraged to submit their dissertation proposal as early as possible in consultation with their advisor but must do so at least six months prior to their defense.**

Date: \_\_\_\_\_

### Degree Requirements

- Minimum of 42 credits of coursework.
- Minimum of 27 credits must be in Computer Science and Engineering courses (excluding DIS and Advance Research credits).
- Minimum of 18 credits at the 6000-level.
- No more than 6 credits of Directed Independent Study and/or Advanced Research may be used to satisfy the minimum 42 credits. In that case, the subject matter may not overlap the student's dissertation.
- Minimum of 30 credits of dissertation.
- Minimum GPA of 3.0 (out of 4.0).
- All courses must be completed with a grade of "C" or higher.
- Mandatory two semesters of Graduate Seminar (zero credits).

### Prerequisites

List deficiency courses assigned by the Admission Committee, if applicable:

| Course Number and Title | Semester Taken | Grade |
|-------------------------|----------------|-------|
|                         |                |       |
|                         |                |       |
|                         |                |       |
|                         |                |       |
|                         |                |       |

### For students entering with a Bachelor's Degree

**Graduate Courses (minimum 42 credit hours)**

[illegible]

**Computer Science Dissertation Credit Courses: COT 7980 (Minimum of 30 credits taken over multiple terms)**

[illegible]

Computer Science Directed Independent Study: **COT 6900** O R Advanced Research: **EGN 6918** (No more than 6 crs)

| Course Number and Title | Semester Taken | Grade |
|-------------------------|----------------|-------|
|                         |                |       |
|                         |                |       |

# All PhD Students

\* PhD proposal must be presented and approved by the committee at least 6 months before the oral dissertation defense.

## Publication Requirement

A Doctoral Candidate is expected to have at least one research paper published or accepted for publication in a fully referred conference or journal prior to graduation.

## Layout and Content of “Dissertation Proposal”

This document provides general guidelines for the layout and content of the dissertation proposal. The guidelines may be modified to suit the project and the students’ advisor may require additional material to be added to the proposal. The purpose of this document is to provide a starting point from which the final proposal can be developed.

### Format

The dissertation proposal should be written using MS word or LaTeX. Please use the layout below and number each section accordingly.

### Cover Page

The proposal cover page should include

- Title (up to 25 words) - The title can be a working title in that it can be changed at a later date. It should convey the essence of the proposed work.
- Student Name
- The statement Dissertation Proposal submitted in partial fulfillment of a Doctoral Degree in Computer and Electrical Engineering and Computer Science.
- Date
- Names and room for signature of the student’s advisor and advisory committee.

### Content

The dissertation proposal should include the following sections:

1. **Introduction** - Gives the background to the work in general terms and the layout of the document.
2. **Dissertation Objective** - A statement, which is less than half a page long, specifying the objective of the work.
3. **Literature Review** - Reviews pertinent literature with the objective of placing the research in the context of work that has been done before. Having read this section, the committee will have a clear understanding of how the dissertation will provide new insights and advance the state of the art. A dissertation proposal must clearly identify the uniqueness of the study.
4. **Approach** - Describes the theoretical, experimental, or numerical approach that will be used in the study, including the background theory where necessary. The derivation of major equations can be added in an appendix if required by the student’s supervisor.
5. **Tasks to be completed** - This should describe the expected series of tasks that will be undertaken during the study.
6. **Timetable** - Defines the timeline for the completion of the work.
7. **References** - A list of references should be provided in an appropriate academic format such as Harvard or Author-Date.
8. **Figures and Tables** - Figures and tables may be placed in the document or at the end of the document. Each figure and table should be numbered in the order that it is referred to in the text and have a caption/heading that describes the content of the figure/table.